

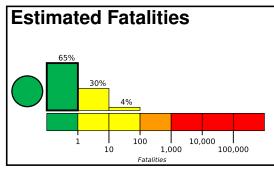


PAGER Version 3

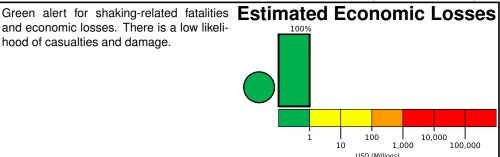
Created: 1 day, 0 hours after earthquake

M 5.4, 10 km NE of Tuban, Philippines

Origin Time: 2021-10-02 21:59:27 UTC (Sun 05:59:27 local) Location: 12.8786° N 120.9054° E Depth: 9.3 km



and economic losses. There is a low likelihood of casualties and damage.



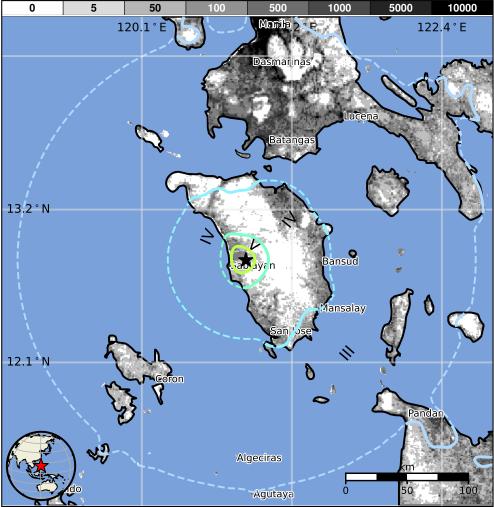
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	29,110k	1,252k	52k	57k	3k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1999-12-11	343	7.2	VIII(17k)	1
1973-03-17	212	7.5	VIII(6k)	15
1990-07-16	317	7.7	IX(893k)	2k

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

MMI	City	Population
VI	Tuban	2k
٧	Sablayan	38k
٧	Barahan	6k
٧	Batasan	5k
V	Ligaya	8k
IV	Banos	2k
IV	Calapan	66k
Ш	Calamba	317k
Ш	Taguig	644k
III	Manila	1,600k
Ш	Quezon City	2,762k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.